WHAT IS CLAIMED:

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1. A liner for a shaped charge comprising:

a mixture of powdered heavy metal and powdered binder metal formed into a rigid body

wherein

the percentage of heavy metal in the mixture is within a range of approximately 90.0% to

5 99.98% by weight.

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2. A liner for a shaped charge according to claim 1 wherein

the heavy metal powder is chosen from the group consisting of tungsten, tantalum, hafnium,

silver, gold, platinum, copper, or any mixture thereof.

3. A liner for a shaped charge according to claim 1 wherein

the heavy metal consists essentially of tungsten.

4. A liner for a shaped charge according to claim 1 wherein

the percentage of heavy metal in the mixture is within a range of approximately 99.0% to

3 99.98% by weight.

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5. A liner for a shaped charge according to claim 1 wherein

the binder metal is chosen from the group consisting of copper, lead, zinc, tin, and bismuth.

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1	6. A liner for a shaped charge according to claim 1 wherein
2	the binder metal consists essentially of lead.
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1	7. A liner for a shaped charge according to claim 1/wherein
2	the mixture further comprises approximately 0.02% to 1.0% lubricant by weight.
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1	8. A liner for a shaped charge according to claim 7 wherein
2	the lubricant comprises powdered graphite.
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1	9. A liner for a shaped charge according to claim 7 wherein
2	the lubricant comprises oil.
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1	10. A liner for a shaped charged according to claim 1 wherein
2	the percentage of heavy metal in the mixture is approximately 93.0%
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1	11. A liner for a shaped charge comprising:
2	heavy metal powder, coated with a binder metal, formed into a rigid body.
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1	12. A liner for a shaped charge according to claim 11 wherein
2	the heavy meta/powder is chosen from the group consisting of tungsten, tantalum, hafnium
3	platinum, silver, gold copper, or any mixture thereof.
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	1	13. A liner for a shaped charge according to claim 11 wherein
	2	the heavy metal comprises tungsten.
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	1	14. A liner for a shaped charge according to claim 11 wherein
	2	the binder metal is chosen from the group consisting of copper, tin, zinc, lead, bismuth or
	3	any mixture thereof.
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	1	15. A liner for a shaped charge according to claim 11 wherein
	2	the percentage of heavy metal in the heavy metal powder is within a range of approximately
	3	90.0% to 99.98% by weight.
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	1	16. A liner for a shaped charge according to claim 11 wherein
	2	the percentage of heavy metal in the heavy metal liner is approximately 93.0%
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The Line was the San II is	1	17. A liner for a shaped charge according to claim 11 wherein
The state of the s	2	the percentage of heavy metal is within a range of approximately 99.0% to 99.98% by
	3	weight.
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	1	18. A liner for a shaped charge according to claim 11 wherein
	2	the heavy metal powder, coated with binder metal, is mixed with approximately 0.02% -
	3	1.0% lubricant by weight.
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1	19. A liner for a shaped charge according to claim 18 wherein
2	the lubricant comprises powdered graphite.
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1	20. A liner for a shaped charge according to claim 18 wherein
2	the lubricant comprises oil.
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1	21. A liner for a shaped charge comprising:
2	a mixture of powdered heavy metal, powdered metal binder, and a heavy metal powder
3	coated with a binder metal formed into a rigid body.
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1	22. A liner for a shaped charge according to claim 21 wherein
2	the rigid body is substantially conical.
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1	23. A liner for a shaped charge according to claim 21 wherein
2	the rigid body is substantially conical.
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1	24. A liner for a sharped charge according to claim 21 wherein
2	the rigid body is substantially conical.
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س 1 1	25. A liner for a shaped charge according to claim 21 wherein
2	the percentage of heavy metal in the mixture is within a range of approximately 90.0% to
3	99.98% by weight.

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1	26. A liner for a shaped charge according to claim 21 wherein
2	the percentage of heavy metal in the mixture is approximately 93.0%.
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1	27. A liner for a shaped charge according to claim 21 wherein
2	the heavy metal powder is chosen from the group consisting of tungsten, tantalum, hafnium,
3	silver, gold, platinum, copper, or any mixture thereof.
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1	28. A liner for a shaped charge according to claim 21 wherein
2	the heavy metal consists essentially of tungsten.
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the state of the s	29. A liner for a shaped charge according to claim 21 wherein
2	the percentage of heavy metal in the mixture is within a range of approximately 99.0% to
2?	99.98% by weight.
	30. A liner for a shaped charge according to claim 21 wherein
2	the binder metal is chosen from the group consisting of copper, lead, zinc, tin, and bismuth.
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1	31. A liner for a shaped charge according to claim 21 wherein
2	the binder metal consists essentially of lead.
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1	32. A liner for a shaped charge according to claim 21 wherein
2	the mixture further comprises approximately 0.02% to 1.0% lubricant by weight.
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	1	33. A liner for a shaped charge according to claim 21 wherein
	2	the lubricant comprises powdered graphite
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	1	34. A liner for a shaped charge according to claim 21 wherein
	2	the lubricant comprises oil
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	1	35. A liner for a shaped charge according to claim 21 wherein
	2	the mixture is compressively formed
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	1	36. A liner for a shaped charge according to claim 1 wherein
	2	the mixture is compressively formed.
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Hard Beet.	1	37. A liner for a shaped charge according to claim 11 wherein
=:	2	The mixture is compressively formed.